




States: x, vx, y, vy, mu, vmu, phi, dphi, theta, dtheta, psi, dps, wx, wy, wz, B  
 Measurements: IMU\_attitudeV\_cluster, IMU\_DlatitudeV\_cluster, IMU\_accV\_cluster, OFV\_cluster\_XY, AV\_cluster  
 Q Diagonal: [1.00e-04 1.00e-04 1.00e-04 1.00e+00 1.00e-04 1.00e-04 1.44e+00 1.00e-04 1.44e+00 1.00e-04 1.44e+00 1.00e-04 1.21e-12 1.21e-12 1.21e-12 1.00e-20]  
 R Diagonal: [1.00e-08 1.00e-08 1.00e-08 3.60e-01 2.50e-01 1.60e-01 4.00e+00 6.25e+00 9.00e+00 1.69e+02 1.69e+02 1.69e+00 1.69e+00 1.00e-06]  
 P0 Diagonal: [1.0e+00 2.5e-03 1.0e+00 2.5e-03 1.0e+00 2.5e-03 1.0e-06 1.0e-08 1.0e-06 1.0e-08 1.0e-06 1.0e-08 1.0e-06 1.0e-08 1.0e-06]  
 Q Power: e0




States: x, vx, y, vy, mu, vmu, phi, dphi, theta, dtheta, psi, dps, wx, wy, wz, B  
 Measurements: IMU\_attitudeV\_cluster, IMU\_DlatitudeV\_cluster, IMU\_accV\_cluster, OFV\_cluster\_XY, AV\_cluster  
 Q Diagonal: [1.00e-04 1.00e-04 1.00e-04 1.00e-04 1.00e-20 1.00e-20 1.00e-04 1.44e+00  
 1.00e-04 1.44e+00 1.00e-04 1.44e+00 1.21e-12 1.21e-12 1.21e-12 1.00e-20]  
 R Diagonal: [1.00e-08 1.00e-08 1.00e-08 3.60e-01 2.50e-01 1.60e-01 4.00e+00 6.25e+00  
 9.00e+00 1.69e+02 1.69e+02 1.69e+00 1.69e+00 1.69e+00]  
 P0 Diagonal: [1.0e+00 2.5e-03 1.0e+00 2.5e-03 1.0e+00 2.5e-03 1.0e-06 1.0e-08 1.0e-06  
 1.0e-08 1.0e-06 1.0e-08 1.0e-08 1.0e-08 1.0e-06]  
 Q Power: e-10




States: x, vx, y, vy, mu, vmu, phi, dphi, theta, dtheta, psi, dps, wx, wy, wz, B  
 Measurements: IMU\_attitudeV\_cluster, IMU\_DlatitudeV\_cluster, IMU\_accV\_cluster, OFV\_cluster\_XY, AV\_cluster  
 Q Diagonal: [1.00e-04 1.00e-04 1.00e-04 1.00e-04 1.00e-02 1.00e-04 1.44e+00  
 1.00e-04 1.44e+00 1.00e-04 1.44e+00 1.21e-12 1.21e-12 1.21e-12 1.00e-20]  
 R Diagonal: [1.00e-08 1.00e-08 1.00e-08 3.60e-01 2.50e-01 1.60e-01 4.00e+00 6.25e+00  
 9.00e+00 1.69e+02 1.69e+02 1.69e+00 1.69e+00]  
 P0 Diagonal: [1.0e+00 2.5e-03 1.0e+00 2.5e-03 1.0e+00 2.5e-03 1.0e-06 1.0e-08 1.0e-06  
 1.0e-08 1.0e-06 1.0e-08 1.0e-08 1.0e-08 1.0e-06]  
 Q Power: e-1




States: x, vx, y, vy, mu, vmu, phi, dphi, theta, dtheta, psi, dps, wx, wy, wz, B  
 Measurements: IMU\_attitudeV\_cluster, IMU\_DlatitudeV\_cluster, IMU\_accV\_cluster, OFV\_cluster\_XY, AV\_cluster  
 Q Diagonal: [1.00e-04 1.00e-04 1.00e-04 1.00e-04 1.00e+02 1.00e-04 1.44e+00 1.00e-04 1.44e+00 1.00e-04 1.44e+00 1.00e-04 1.21e-12 1.21e-12 1.21e-12 1.00e-20]  
 R Diagonal: [1.00e-08 1.00e-08 1.00e-08 3.60e-01 2.50e-01 1.60e-01 4.00e+00 6.25e+00 9.00e+00 1.69e+02 1.69e+02 1.69e+00 1.69e+00 1.00e-06]  
 P0 Diagonal: [1.0e+00 2.5e-03 1.0e+00 2.5e-03 1.0e+00 2.5e-03 1.0e-06 1.0e-08 1.0e-06 1.0e-08 1.0e-06 1.0e-08 1.0e-06 1.0e-08 1.0e-06]  
 Q Power: e1




States: x, vx, y, vy, mu, vmu, phi, dphi, theta, dtheta, psi, dps, wx, wy, wz, B  
 Measurements: IMU\_attitudeV\_cluster, IMU\_DlatitudeV\_cluster, IMU\_accV\_cluster, OFV\_cluster\_XY, AV\_cluster  
 Q Diagonal: [1.00e-04 1.00e-04 1.00e-04 1.00e-04 1.00e-04 1.00e-04 1.44e+00  
 1.00e-04 1.44e+00 1.00e-04 1.44e+00 1.21e-12 1.21e-12 1.21e-12 1.00e-20]  
 R Diagonal: [1.00e-08 1.00e-08 1.00e-08 3.60e-01 2.50e-01 1.60e-01 4.00e+00 6.25e+00  
 9.00e+00 1.69e+02 1.69e+02 1.69e+00 1.69e+00]  
 P0 Diagonal: [1.0e+00 2.5e-03 1.0e+00 2.5e-03 1.0e+00 2.5e-03 1.0e-06 1.0e-08 1.0e-06  
 1.0e-08 1.0e-06 1.0e-08 1.0e-08 1.0e-08 1.0e-06]  
 Q Power: e-2




States: x, vx, y, vy, mu, vmu, phi, dphi, theta, dtheta, psi, dps, wx, wy, wz, B  
 Measurements: IMU\_attitudeV\_cluster, IMU\_DlatitudeV\_cluster, IMU\_accV\_cluster, OFV\_cluster\_XY, AV\_cluster  
 Q Diagonal: [1.00e-04 1.00e-04 1.00e-04 1.00e-04 1.00e+04 1.00e-04 1.44e+00 1.00e-04 1.44e+00 1.00e-04 1.44e+00 1.00e-04 1.21e-12 1.21e-12 1.21e-12 1.00e-20]  
 R Diagonal: [1.00e-08 1.00e-08 1.00e-08 3.60e-01 2.50e-01 1.60e-01 4.00e+00 6.25e+00 9.00e+00 1.69e+02 1.69e+02 1.69e+00 1.69e+00]  
 P0 Diagonal: [1.0e+00 2.5e-03 1.0e+00 2.5e-03 1.0e+00 2.5e-03 1.0e-06 1.0e-08 1.0e-06 1.0e-08 1.0e-06 1.0e-08 1.0e-06 1.0e-08 1.0e-06]  
 Q Power: e2




States: x, vx, y, vy, mu, vmu, phi, dphi, theta, dtheta, psi, dps, wx, wy, wz, B  
 Measurements: IMU\_attitudeV\_cluster, IMU\_DlatitudeV\_cluster, IMU\_accV\_cluster, OFV\_cluster\_XY, AV\_cluster  
 Q Diagonal: [1.00e-04 1.00e-04 1.00e-04 1.00e-04 1.00e-06 1.00e-06 1.00e-04 1.44e+00  
 1.00e-04 1.44e+00 1.00e-04 1.44e+00 1.21e-12 1.21e-12 1.21e-12 1.00e-20]  
 R Diagonal: [1.00e-08 1.00e-08 1.00e-08 3.60e-01 2.50e-01 1.60e-01 4.00e+00 6.25e+00  
 9.00e+00 1.69e+02 1.69e+02 1.69e+00 1.69e+00 1.69e+00]  
 P0 Diagonal: [1.0e+00 2.5e-03 1.0e+00 2.5e-03 1.0e+00 2.5e-03 1.0e+00 1.0e-06 1.0e-06  
 1.0e-08 1.0e-06 1.0e-08 1.0e-08 1.0e-08 1.0e-06]  
 Q Power: e-3




States: x, vx, y, vy, mu, vmu, phi, dphi, theta, dtheta, psi, dps, wx, wy, wz, B  
 Measurements: IMU\_attitudeV\_cluster, IMU\_DlatitudeV\_cluster, IMU\_accV\_cluster, OFV\_cluster\_XY, AV\_cluster  
 Q Diagonal: [1.00e-04 1.00e-04 1.00e-04 1.00e-04 1.00e-08 1.00e-08 1.00e-04 1.44e+00  
 1.00e-04 1.44e+00 1.00e-04 1.44e+00 1.21e-12 1.21e-12 1.21e-12 1.00e-20]  
 R Diagonal: [1.00e-08 1.00e-08 1.00e-08 3.60e-01 2.50e-01 1.60e-01 4.00e+00 6.25e+00  
 9.00e+00 1.69e+02 1.69e+02 1.69e+00 1.69e+00 1.69e+00]  
 P0 Diagonal: [1.0e+00 2.5e-03 1.0e+00 2.5e-03 1.0e+00 2.5e-03 1.0e-06 1.0e-08 1.0e-06  
 1.0e-08 1.0e-06 1.0e-08 1.0e-08 1.0e-08 1.0e-06]  
 Q Power: e-4




States: x, vx, y, vy, mu, vmu, phi, dphi, theta, dtheta, psi, dps, wx, wy, wz, B  
 Measurements: IMU\_attitudeV\_cluster, IMU\_DlatitudeV\_cluster, IMU\_accV\_cluster, OFV\_cluster\_XY, AV\_cluster  
 Q Diagonal: [1.00e-04 1.00e-04 1.00e-04 1.00e-04 1.00e-10 1.00e-10 1.00e-04 1.44e+00  
 1.00e-04 1.44e+00 1.00e-04 1.44e+00 1.21e-12 1.21e-12 1.21e-12 1.00e-20]  
 R Diagonal: [1.00e-08 1.00e-08 1.00e-08 3.60e-01 2.50e-01 1.60e-01 4.00e+00 6.25e+00  
 9.00e+00 1.69e+02 1.69e+02 1.69e+00 1.69e+00 1.69e+00]  
 P0 Diagonal: [1.0e+00 2.5e-03 1.0e+00 2.5e-03 1.0e+00 2.5e-03 1.0e+00 2.5e-03 1.0e-06 1.0e-08 1.0e-06  
 1.0e-08 1.0e-06 1.0e-08 1.0e-08 1.0e-08 1.0e-06]  
 Q Power: e-5




States: x, vx, y, vy, mu, vmu, phi, dphi, theta, dtheta, psi, dps, wx, wy, wz, B  
 Measurements: IMU\_attitudeV\_cluster, IMU\_DlatitudeV\_cluster, IMU\_accV\_cluster, OFV\_cluster\_XY, AV\_cluster  
 Q Diagonal: [1.00e-04 1.00e-04 1.00e-04 1.00e-04 1.00e-12 1.00e-04 1.44e+00  
 1.00e-04 1.44e+00 1.00e-04 1.44e+00 1.21e-12 1.21e-12 1.21e-12 1.00e-20]  
 R Diagonal: [1.00e-08 1.00e-08 1.00e-08 3.60e-01 2.50e-01 1.60e-01 4.00e+00 6.25e+00  
 9.00e+00 1.69e+02 1.69e+02 1.69e+00 1.69e+00 1.69e+00]  
 P0 Diagonal: [1.0e+00 2.5e-03 1.0e+00 2.5e-03 1.0e+00 2.5e-03 1.0e-06 1.0e-08 1.0e-06  
 1.0e-08 1.0e-06 1.0e-08 1.0e-08 1.0e-08 1.0e-06]  
 Q Power: e-6



States: x, vx, y, vy, mu, vmu, phi, dphi, theta, dtheta, psi, dps, wx, wy, wz, B  
 Measurements: IMU\_attitudeV\_cluster, IMU\_DlatitudeV\_cluster, IMU\_accV\_cluster, OFV\_cluster\_XY, AV\_cluster  
 Q Diagonal: [1.00e-04 1.00e-04 1.00e-04 1.00e-04 1.00e-14 1.00e-04 1.00e-04 1.44e+00  
 1.00e-04 1.44e+00 1.00e-04 1.44e+00 1.21e-12 1.21e-12 1.21e-12 1.00e-20]  
 R Diagonal: [1.00e-08 1.00e-08 1.00e-08 3.60e-01 2.50e-01 1.60e-01 4.00e+00 6.25e+00  
 9.00e+00 1.69e+02 1.69e+02 1.69e+00 1.69e+00 1.69e+00]  
 P0 Diagonal: [1.0e+00 2.5e-03 1.0e+00 2.5e-03 1.0e+00 2.5e-03 1.0e+00 1.0e-06 1.0e-08 1.0e-06  
 1.0e-08 1.0e-06 1.0e-08 1.0e-08 1.0e-08 1.0e-06]  
 Q Power: e-7



States: x, vx, y, vy, mu, vmu, phi, dphi, theta, dtheta, psi, dps, wx, wy, wz, B  
 Measurements: IMU\_attitudeV\_cluster, IMU\_DlatitudeV\_cluster, IMU\_accV\_cluster, OFV\_cluster\_XY, AV\_cluster  
 Q Diagonal: [1.00e-04 1.00e-04 1.00e-04 1.00e-04 1.00e-16 1.00e-04 1.44e+00  
 1.00e-04 1.44e+00 1.00e-04 1.44e+00 1.21e-12 1.21e-12 1.21e-12 1.00e-20]  
 R Diagonal: [1.00e-08 1.00e-08 1.00e-08 3.60e-01 2.50e-01 1.60e-01 4.00e+00 6.25e+00  
 9.00e+00 1.69e+02 1.69e+02 1.69e+00 1.69e+00 1.69e+00]  
 P0 Diagonal: [1.0e+00 2.5e-03 1.0e+00 2.5e-03 1.0e+00 2.5e-03 1.0e-06 1.0e-08 1.0e-06  
 1.0e-08 1.0e-06 1.0e-08 1.0e-08 1.0e-08 1.0e-06]  
 Q Power: e-8



States: x, vx, y, vy, mu, vmu, phi, dphi, theta, dtheta, psi, dps, wx, wy, wz, B  
 Measurements: IMU\_attitudeV\_cluster, IMU\_DlatitudeV\_cluster, IMU\_accV\_cluster, OFV\_cluster\_XY, AV\_cluster  
 Q Diagonal: [1.00e-04 1.00e-04 1.00e-04 1.00e-04 1.00e-18 1.00e-04 1.00e-04 1.44e+00  
 1.00e-04 1.44e+00 1.00e-04 1.44e+00 1.21e-12 1.21e-12 1.21e-12 1.00e-20]  
 R Diagonal: [1.00e-08 1.00e-08 1.00e-08 3.60e-01 2.50e-01 1.60e-01 4.00e+00 6.25e+00  
 9.00e+00 1.69e+02 1.69e+02 1.69e+00 1.69e+00 1.69e+00]  
 P0 Diagonal: [1.0e+00 2.5e-03 1.0e+00 2.5e-03 1.0e+00 2.5e-03 1.0e-06 1.0e-08 1.0e-06  
 1.0e-08 1.0e-06 1.0e-08 1.0e-08 1.0e-08 1.0e-06]  
 Q Power: e-9

